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### IN THE CLAIMS

Please amend the claims as follows. The following listing of claims replaces all prior versions.

1. (currently amended) A compound of the general formula (I)



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k-sp$ , wherein

$A^1$  is  $(CH_2)_tY(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

$A^2$  is  $-NHCO-$  or  $-CONH-$ ,

$A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein

r = 1,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen, or a ligand suitable for specific bonding to a receptor sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe<sup>A</sup>, SiaLe<sup>X</sup>, HSO<sub>3</sub>Le<sup>A</sup>, HSO<sub>3</sub>Le<sup>X</sup>, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>(Sia)Le<sup>X</sup>, HSO<sub>3</sub>(Sia)Le<sup>A</sup>, Le<sup>Y</sup>, GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-

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3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

m is at least 2,  
 with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment X(K)<sub>m</sub> is less than 20,000.

2. (previously presented) A compound according to claim 1, wherein the molar mass of the fragment X(K)<sub>m</sub> is less than 4,000.

3. (previously presented) A compound according to claim 1, wherein

m is an integer from 2 to 4, and

X is CH<sub>4-m</sub>, NH<sub>3-m</sub>, N<sup>+</sup>H<sub>4-m</sub>, >P- (when m = 3), >P<sup>+</sup>< (when m = 4), >B- (when m = 3), a linear atom group C<sub>2</sub>H<sub>6-m</sub>, >CH(CH<sub>2</sub>)<sub>2</sub>CH<, >C=C<, >N-N<, >N(CH<sub>2</sub>)<sub>z</sub>N< wherein z = 2 - 6, when m = 4), a carbocyclic atom group C<sub>6</sub>H<sub>6-m</sub>, C<sub>6</sub>H<sub>12-m</sub>, or a heterocyclic atom group C<sub>3</sub>N<sub>3</sub> (when m = 3), C<sub>4</sub>N<sub>2</sub> (when m = 4).

4. (previously presented) A compound according to claim 1, wherein there are at least 3 K.

5. (previously presented) A compound according to claim 1, wherein at least two R are not hydrogen.

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6. (previously presented) A compound according to claim 1, wherein at least three R are not hydrogen.

7-8. (canceled).

9. (previously presented) A compound according to claim 1, wherein  
 m is an integer from 2 to 4,  
 X is  $\text{CH}_{4-m}$ ,  
 $\text{A}^1$  is  $\text{CH}_2$ ,  
 $\text{A}^2$  is  $\text{NHCO}$ ,  
 $\text{A}^3$  is  $\text{CH}_2$ ,  
 k is 8,  
 sp is  $(\text{CH}_2)_3\text{CONHCH}_2\text{CONHC}_6\text{H}_4\text{-4-CH}_2\text{O-}$  and  
 R is Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc.

10. (currently amended) An aggregate of the general formula (II):



wherein  $\text{X}(\text{B})_m$  may be identical or different and denote a compound of the general formula (I),



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $\text{A}^1-(\text{A}^2-\text{A}^3)_k\text{-sp}$ , wherein

$\text{A}^1$  is  $(\text{CH}_2)_t\text{Y}(\text{CH}_2)_u$ , wherein

Y is  $>\text{C}=\text{O}$ ,  $>\text{NH}$ ,  $-\text{O}-$ ,  $-\text{S}-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(\text{A}^2-\text{A}^3)$  can be any  $\text{A}^2$  and any  $\text{A}^3$  in any combination,

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$A^2$  is  $-NHCO-$  or  $-CONH-$ ,  
 $A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein  
 $r = 1$ ,  
 $sp$  is a divalent spacer or a bond, and  
 $k$  is an integer from 5 to 100, and

$R$  is hydrogen, ~~or a ligand suitable for specific bonding to a receptor~~ sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe $^A$ , SiaLe $^X$ , HSO $_3$ Le $^A$ , HSO $_3$ Le $^X$ , Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO $_3$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO $_2$ GlcA $\beta$ 1-3Gal, HSO $_2$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, HSO $_2$ (Sia)Le $^X$ , HSO $_2$ (Sia)Le $^A$ , Le $^Y$ , GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

$m$  is at least 2,

with the proviso that

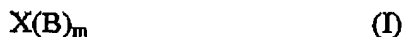
- (1) in the compound at least one  $R$  is not hydrogen,
- (2) there are at least two  $K$  that are not a bond, and
- (3)  $X$ ,  $B$  and  $m$  are so selected that an intermolecular association of the  $K$  in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of  $R$  that are not hydrogen, and
- (4) the molar mass of the fragment  $X(K)_m$  is less than 20,000, and  $n$  is from 2 to 100,000,

and wherein  $X(B)_m$  are non-covalently bonded.

11. (previously presented) An aggregate according to claim 10 having a leaf-like, linear, cyclic, polycyclic, polyhedral, spherical or dendritic structure.

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12. (currently amended) An aggregate according to claim 10 of two or more different compounds comprising a compound of the general formula (I)



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k\text{-sp}$ , wherein

$A^1$  is  $(CH_2)_tY(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

$A^2$  is  $-NHCO-$  or  $-CONH-$ ,

$A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein

r = 1,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen, or a ligand suitable for specific bonding to a receptor sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe $^A$ , SiaLe $^X$ , HSO $_3$ Le $^A$ , HSO $_3$ Le $^X$ , Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO $_3$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO $_3$ GlcA $\beta$ 1-3Gal, HSO $_3$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, HSO $_3$ (Sia)Le $^X$ , HSO $_3$ (Sia)Le $^A$ , Le $^Y$ , GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

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m is at least 2,  
 with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment  $X(K)_m$  is less than 20,000.

13. (canceled)

14. (previously presented) A method according to claim 27, further comprising adding a concentrated salt solution, changing the pH or the temperature, or adding organic solvents.

15. (currently amended) A method for changing the structure of an aggregate of the general formula (II)



wherein  $X(B)_m$  may be identical or different and denote a compound of the general formula (I),



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k$ -sp, wherein

$A^1$  is  $(CH_2)_tY(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

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$A^2$  is  $-NHCO-$  or  $-CONH-$ ,  
 $A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein  
 $r = 1$ ,  
 $sp$  is a divalent spacer or a bond, and  
 $k$  is an integer from 5 to 100, and

$R$  is hydrogen, ~~or a ligand suitable for specific bonding to a receptor~~ sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe<sup>A</sup>, SiaLe<sup>X</sup>, HSO<sub>3</sub>Le<sup>A</sup>, HSO<sub>3</sub>Le<sup>X</sup>, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>(Sia)Le<sup>X</sup>, HSO<sub>3</sub>(Sia)Le<sup>A</sup>, Le<sup>Y</sup>, GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

$m$  is at least 2,

with the proviso that

- (1) in the compound at least one  $R$  is not hydrogen,
- (2) there are at least two  $K$  that are not a bond, and
- (3)  $X$ ,  $B$  and  $m$  are so selected that an intermolecular association of the  $K$  in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of  $R$  that are not hydrogen, and
- (4) the molar mass of the fragment  $X(K)_m$  is less than 20,000, and

$n$  is from 2 to 100,000,

and wherein  $X(B)_m$  are non-covalently bonded,

further comprising adding a concentrated salt solution, changing the temperature or the pH and/or adding urea, trifluoroethanol or peptides.

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16. (previously presented) A method according to claim 27 further comprising increasing the specific physiological activities of molecules by incorporating a radical R into a compound of the general formula (I).

17. (canceled)

18. (currently amended) A method of treating diseases arising from inflammation, viral and bacterial infections, influenza viruses, selectin-mediated inflammatory processes, tumour metastases, or in the neutralisation of antibodies in autoimmune disorders and transplants; said method comprising administering a compound of the general formula (I)



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k-sp$ , wherein

$A^1$  is  $(CH_2)_tY(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

$A^2$  is  $-NHCO-$  or  $-CONH-$ ,

$A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein

r = 1,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen, ~~or a ligand suitable for specific bonding to a receptor~~ sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe<sup>A</sup>, SiaLe<sup>X</sup>, HSO<sub>3</sub>Le<sup>A</sup>, HSO<sub>3</sub>Le<sup>X</sup>, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-



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4GlcNAc, HSO<sub>3</sub>GlcAβ1-3Galβ1-4GlcNAc, N-acetyl-lactosamine or poly(lactosamine, sialic acid benzyl glycoside, HSO<sub>3</sub>GlcAβ1-3Gal, HSO<sub>3</sub>GlcAβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc, GalNAcα, GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAc, Galα1-3(Fuca1-2)Galβ1-4GlcNAc, HSO<sub>3</sub>(Sia)Le<sup>X</sup>, HSO<sub>3</sub>(Sia)Le<sup>A</sup>, Le<sup>Y</sup>, GlcNAcβ1-6(GlcNAcβ1-3)Galβ1-4Glc, GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc, mannose-6-phosphate, GalNAcβ1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Galα1-4Galβ1-4Glc, or Galα1-4Galβ1-4GlcNAc; and

m is at least 2,

with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment X(K)<sub>m</sub> is less than 20,000; or administering into an aggregate of the general formula (II)



wherein

X(B)<sub>m</sub> may be identical or different and denote a compound of the general formula (I), and

n is from 2 to 100,000,

and wherein X(B)<sub>m</sub> are non-covalently bonded.

19. (canceled)

20. (previously presented) A method according to claim 18 further comprising preparing functionalized molecular surfaces.

21-22. (canceled).

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23. (currently amended) A compound of the general formula (I),



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k-sp$ , wherein

$A^1$  is  $(CH_2)_t Y(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

$A^2$  is  $-NHCO-$  or  $-CONH-$ ,

$A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein

r = 1,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen, ~~or a ligand suitable for specific bonding to a receptor sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuca1-2)Gal, GalNAc $\alpha$ 1-3(Fuca1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe<sup>A</sup>, SiaLe<sup>X</sup>, HSO<sub>3</sub>Le<sup>A</sup>, HSO<sub>3</sub>Le<sup>X</sup>, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuca1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuca1-2)Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>(Sia)Le<sup>X</sup>, HSO<sub>3</sub>(Sia)Le<sup>A</sup>, Le<sup>Y</sup>, GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and~~

m is at least 2,

with the proviso that

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- (1) X, B and m are so selected that an intermolecular association of the K in liquid phase is possible, especially under aqueous conditions, by the formation of hydrogen bonds, with formation of aggregates, and
- (2) the molar mass of the fragment  $X(K)_m$  is less than 20,000, especially less than 4000.

24-26. (canceled)

27. (currently amended) A method of preparing an aggregate comprising:  
 preparing a compound of the general formula (II)



wherein

$X(B)_m$  may be identical or different and denote a compound of the general formula (I),



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is  $A^1-(A^2-A^3)_k-sp$ , wherein

$A^1$  is  $(CH_2)_tY(CH_2)_u$ , wherein

Y is  $>C=O$ ,  $>NH$ ,  $-O-$ ,  $-S-$  or a bond,

t is an integer from 0 to 6 and

u is an integer from 0 to 6,

$(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,

$A^2$  is  $-NHCO-$  or  $-CONH-$ ,

$A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein

r = 1,

sp is a divalent spacer or a bond, and

k is an integer from 5 to 100, and

R is hydrogen, ~~or a ligand suitable for specific bonding to a receptor~~ sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-

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2)Gal, GalNAc $\alpha$ 1-3(Fuca1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe<sup>A</sup>, SiaLe<sup>X</sup>, HSO<sub>3</sub>Le<sup>A</sup>, HSO<sub>3</sub>Le<sup>X</sup>, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal, HSO<sub>3</sub>GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuca1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuca1-2)Gal $\beta$ 1-4GlcNAc, HSO<sub>3</sub>(Sia)Le<sup>X</sup>, HSO<sub>3</sub>(Sia)Le<sup>A</sup>, Le<sup>Y</sup>, GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

m is at least 2,

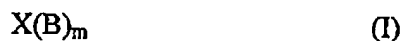
with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment X(K)<sub>m</sub> is less than 20,000, and

n is from 2 to 100,000,

and wherein X(B)<sub>m</sub> are non-covalently bonded.

28. (currently amended) A method of preparing a therapeutic drug comprising:  
 preparing the compound of the general formula (I)



wherein

X is an m-valent unit and

B are identical or different and denote K-R, wherein

K is a bond or is A<sup>1</sup>-(A<sup>2</sup>-A<sup>3</sup>)<sub>k</sub>-sp, wherein

A<sup>1</sup> is (CH<sub>2</sub>)<sub>t</sub>Y(CH<sub>2</sub>)<sub>u</sub>, wherein

Y is >C=O, >NH, -O-, -S- or a bond,

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t is an integer from 0 to 6 and  
 u is an integer from 0 to 6,  
 $(A^2-A^3)$  can be any  $A^2$  and any  $A^3$  in any combination,  
 $A^2$  is  $-NHCO-$  or  $-CONH-$ ,  
 $A^3$  is  $(CH_2)_r$ ,  $O(CH_2)_r$ , or  $S(CH_2)_r$ , wherein  
 $r = 1$ ,  
 sp is a divalent spacer or a bond, and  
 k is an integer from 5 to 100, and

R is hydrogen, ~~or a ligand suitable for specific bonding to a receptor~~ sialic acid, sialyl lactose, sialyl lactosamine, lactose, mannose, Gal $\alpha$ 1-3Gal, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal, Neu5Ac $\alpha$ 2-6GalNAc, SiaLe $^A$ , SiaLe $^X$ , HSO $_3$ Le $^A$ , HSO $_3$ Le $^X$ , Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal $\beta$ 1-4Glc, Neu5Ac $\alpha$ 2-6Gal $\beta$ 1-4GlcNAc, HSO $_3$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc, N-acetyl-lactosamine or polylactosamine, sialic acid benzyl glycoside, HSO $_3$ GlcA $\beta$ 1-3Gal, HSO $_3$ GlcA $\beta$ 1-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-3Gal $\beta$ 1-4Glc, GalNAc $\alpha$ , GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3(Fuc $\alpha$ 1-2)Gal $\beta$ 1-4GlcNAc, HSO $_2$ (Sia)Le $^X$ , HSO $_2$ (Sia)Le $^A$ , Le $^Y$ , GlcNAc $\beta$ 1-6(GlcNAc $\beta$ 1-3)Gal $\beta$ 1-4Glc, GalNAc $\beta$ 1-4(Neu5Ac $\alpha$ 2-3)Gal $\beta$ 1-4Glc, mannose-6-phosphate, GalNAc $\beta$ 1-4GlcNAc, oligo-sialic acid, N-glycolylneuraminic acid, Gal $\alpha$ 1-4Gal $\beta$ 1-4Glc, or Gal $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc; and

m is at least 2,

with the proviso that

- (1) in the compound at least one R is not hydrogen,
- (2) there are at least two K that are not a bond, and
- (3) X, B and m are so selected that an intermolecular association of the K in liquid phase by the formation of hydrogen bonds is possible, with formation of aggregates that present on the surface a plurality of R that are not hydrogen, and
- (4) the molar mass of the fragment  $X(K)_m$  is less than 20,000; or

preparing the compound of the general formula (II):



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wherein

$X(B)_m$  may be identical or different and denote a compound of the general formula (I), and  
 $n$  is from 2 to 100,000,  
and wherein  $X(B)_m$  are non-covalently bonded; and  
a pharmaceutically acceptable carrier.

29. (canceled)